

April 27, 1926.

1,582,645

W. F. FINDLEY

COMBINATION LIQUID SOAP DISPENSER AND TOWEL RACK

Filed Jan. 29, 1923

Fig. 1.

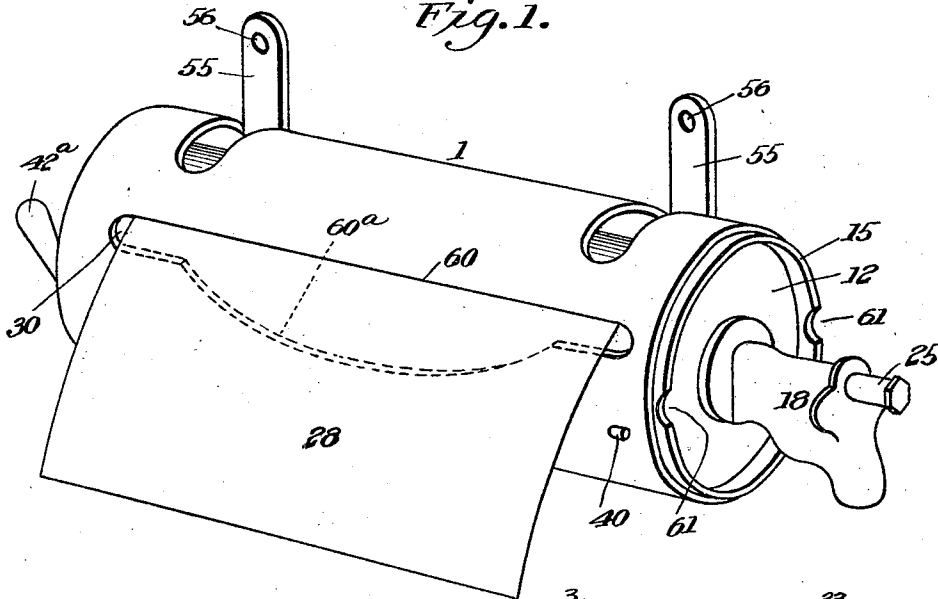


Fig. 2.

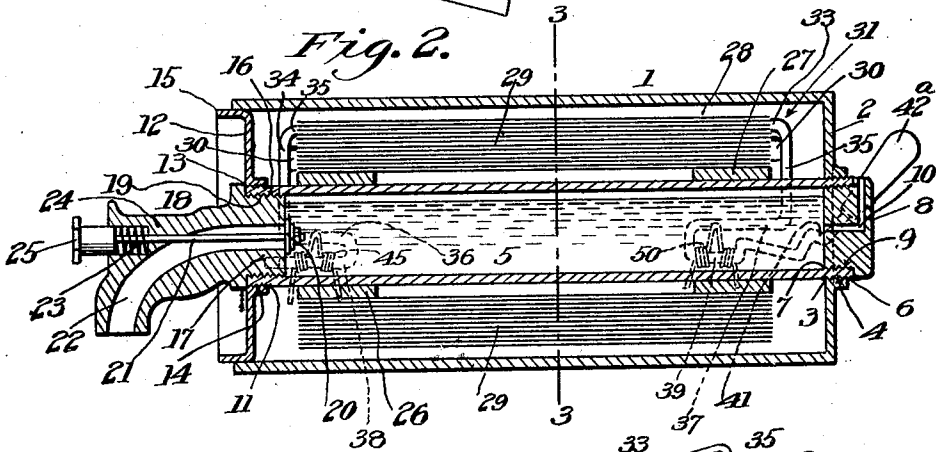


Fig. 3.

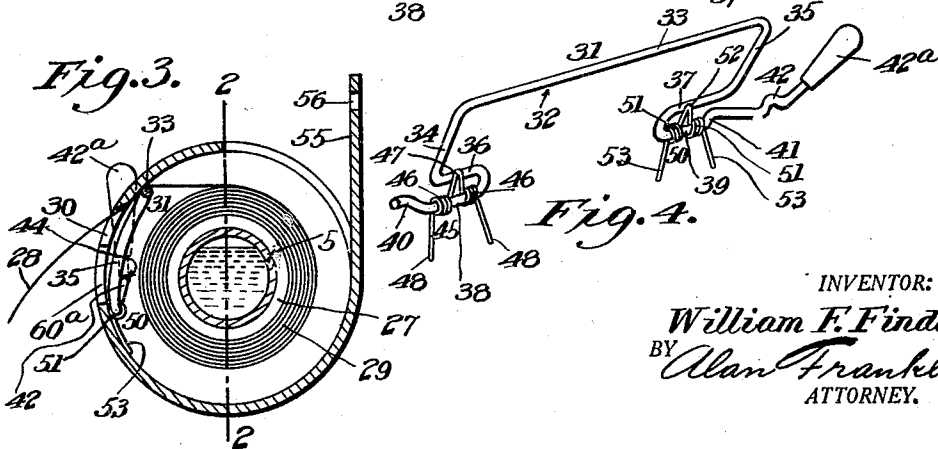


Fig. 4.

INVENTOR:

William F. Findley  
BY Alan Franklin  
ATTORNEY.

# UNITED STATES PATENT OFFICE.

WILLIAM F. FINDLEY, OF LOS ANGELES, CALIFORNIA.

COMBINATION LIQUID-SOAP DISPENSER AND TOWEL RACK.

Application filed January 29, 1923. Serial No. 615,513.

*To all whom it may concern:*

Be it known that WILLIAM F. FINDLEY, a citizen of the United States, residing at Los Angeles, in the county of Los Angeles and State of California, has invented new and useful Improvements in Combination Liquid-Soap Dispensers and Towel Racks, of which the following is a specification.

My invention is a combination liquid soap dispenser and towel rack and the main object thereof is to provide a device of this character which will be simple in construction, inexpensive, efficient in operation and easy to assemble or take apart for recharging or repairs.

Other objects and advantages will appear hereinafter, and while I show herewith and will describe a preferred form of construction, I desire it to be understood that I do not limit my invention to such preferred form, but that various changes and adaptations may be made therein without departing from the spirit of my invention as herein-after claimed.

My objects are attained by the device illustrated in the accompanying drawing in which,

Fig. 1 is a perspective view of my invention.

Fig. 2 is a central longitudinal vertical section of my invention taken on line 2—2 of Fig. 3.

Fig. 3 is a transverse vertical section taken on line 3—3 of Fig. 2.

Fig. 4 is a perspective view of the towel gripper.

Similar numerals refer to similar parts throughout the several views.

In the drawing 1 indicates a casing, preferably cylindrical in shape, but may be any other suitable shape, one end of which casing is open and the other end is closed by an end wall 2—provided with a central opening 3 which has an internal thread 4. An elongated cylindrical liquid soap reservoir 5 extends axially through the casing 1 and one end thereof extends through the opening 3 and has an external thread 6 which engages the thread 4 in said opening. Said end of said reservoir has also an internal thread 7 and a plug 8 is screw seated in said end, said plug having an external thread 9 engaging

said thread 7, there being an air duct 10 extending through said plug downwardly from the atmosphere through one side thereof and at right angles into the end of the reservoir 5. On the other end of said reservoir is an external thread 11. A disk 12 is provided with a central opening 13 provided with an internal thread 14 which engages this thread 11 and said disk has an annular external flange 15 at its periphery, which disk and flange fit in the open end of the casing 1. Said latter end of said reservoir has an internal thread 16 and the inner end 17 of a push valve 18 fits in said end of said reservoir, said end 17 having an external thread 19 which engages the internal thread 16 for detachably holding the valve in said end of said reservoir. Said valve is standard with the exception of the inner threaded end 17 and the closure 20 on the inner end of the valve rod 21, which closure normally closes the inner end of the valve duct 22 under the tension of the spring 23 mounted in the casing 24 of the valve and bearing at one end against the push button 25 which is secured to the forward end of said rod 21. On the reservoir 5 within the casing and near the ends respectively of said reservoir are cylindrical bearings 26 and 27 on which a long sheet of paper towel 28 is wound in a roll 29, the forward end of said towel projecting forwardly from said roll out through a longitudinal slot 30 in the forward part of the wall of casing 1. A towel gripper 31 comprises a single piece of wire 32 bent in the form of a straight longitudinal gripping member 33, a pair of arms 34 and 35 extending downwardly at right angles from the ends of said gripping member, a pair of arms 36 and 37 extending inwardly from the lower ends respectively of said arms 34 and 35 substantially parallel to said gripping member, and a pair of arms 38 and 39 extending outwardly from the inner ends of said arms 36 and 37 parallel to and under said arms 36 and 37; and the outer end of arm 38 is bent outwardly and to one side at 40 and the arm 39 is bent upwardly at 41 from the outer end of arm 39 and outwardly in suitable formation into a crank arm 42, on the extremity of which crank arm is secured a handle 42<sup>a</sup>. The gripper 31 is mounted within the for-

ward part of the casing 1, the end 40 extending through an opening 43 in the lower part of the front wall of the casing and forming a pivot for said end of the gripper, and the crank arm 42 extending through an opening 44 in the lower forward part of the end wall 2 of the casing and forming a pivot for the other end of the gripper, thus positioning the gripper so that the gripping member 33 grips the advanced portion of the paper towel 28 behind the upper edge of the slot 30. A spring 45 is formed with two coils 46—46, which surround the arm 38, and with a V-shaped member 47 extending from one end of said coils and engaging the rear side of arm 36, while the other ends 48—48 of said coils engage the inside of the casing 1 below the arm 38. A spring 50 is formed with two coils 51—51 which surround the arm 39, and with a V-shaped member 52 extending from one end of said coils and engaging the rear side of the arm 37, while the other ends 53—53 of said coils engage the inside of the casing 1 below said arm 39. The springs 45 and 50 normally hold the gripper in position with its gripping member 33 gripping the advanced portion of the paper towel against the inside of the casing just above the slot 30 with slight tension to prevent the towel from unwinding too easily, but to allow the towel to be unwound, and drawn out of the casing with a little tension by the user. A pair of lugs 55—55 are cut upwardly and forwardly in the rear and upper walls of the casing 1 and bent upwardly vertically from said rear wall and are provided with apertures 56—56 in their outer ends for securing said lugs against the wall or a board which may be secured to the wall, whereby the device is mounted in a suitable position on the wall. The upper edge 60 of slot 30 is sharpened on the inside so that the paper towel may be severed on said edge. The lower side of the slot 30 is curved downwardly between the end portions of the slot so that the fingers of the user may be inserted through the slot to wind the towel back on the roll when too much of the towel is unwound. The flange 15 is provided with notches 61 into which one's fingers or a tool may be inserted to turn the reservoir 5 to cause the thread 6 on the closed end thereof to engage or disengage the thread 4 in the end wall 2 of the casing 1 in order to secure the reservoir or liquid soap dispenser in the casing 1, or to remove said reservoir or dispenser from said container, said reservoir being adapted to be inserted or removed through the towel roll bearings 26 and 27.

In operation liquid soap may be dispensed from the reservoir 5 for washing through the valve 18 by pressing the button 25 inwardly. The forward portion of the paper towel 28 may be drawn from the roll 29 against the slight tension of gripper 31 and severed

along the edge 60 for use, the bearings 26 and 27 turning on the reservoir 5 to allow unwinding of the towel from said roll. By turning the handle 42 backwards the gripper 31 is swung out of operation so that the forward part of the towel may be inserted under the gripper or the towel drawn freely through the slot 30.

Having thus described my invention I claim:

1. In combination, a towel container, a towel wound in a roll within said container, one end of said container having a threaded opening, the other end of said container being open, a liquid soap dispenser extending through said container and said towel roll, a thread on one end of said dispenser engaging the thread in said opening, and a disk on the other end of said dispenser fitting in the open end of said container.

2. In combination, a towel container, a towel wound in a roll within said container, one end of said container having a threaded opening, the other end of said container being open, a liquid soap dispenser extending through said container and said towel roll, a thread on one end of said dispenser engaging the thread in said opening, and a flanged disk on the other end of said reservoir fitting in the open end of said container, the flange of said disk having notches in the outer edge thereof.

3. In combination, a towel container provided with a towel slot, a towel wound in a roll within said container and extending through said slot, and a spring gripper mounted within said container for gripping the towel against the inside of said container, and means for disengaging said gripper from the towel.

4. In combination, a towel container provided with a towel slot, a towel wound in a roll within said container and extending through said slot, a spring gripper mounted within said container for gripping the towel against the inside of the container adjacent said slot, a part of said gripper extending through the wall of said container, and a handle on said part outside said container for swinging said gripper out of gripping position.

5. In combination, a towel container provided with a towel slot, a towel wound in a roll within said container and extending through said slot and a gripper mounted within said container comprising a single piece of wire bent to form a gripping member 33, a pair of arms 34 and 35 extending downwardly at right angles from said gripping member, a pair of arms 36 and 37 extending inwardly from the lower ends respectively of said arms 34 and 35, a pair of arms 38 and 39 extending outwardly from and below and parallel to arms 36 and 37 respectively, and a crank arm 42, and a pair

of springs 45 and 50 coiled respectively around arms 38 and 39 and engaging respectively the arms 36 and 37, the front wall of the container having an aperture to receive the end of arm 38 which is bent against the outside of said wall, the end wall of the container having an opening through which the crank arm 42 extends, said springs engaging the inside of the container and normally holding the gripper with the member 10 33 gripping the towel against the inside of the container adjacent said slot.

January 18, 1923.

WILLIAM F. FINDLEY.